# MCAS Miramar Environmental Management

Environmental Training (Initial and Annual Refresher)

- MCAS Miramar is regulated by Federal, State, Local, Navy and Marine Corps environmental policies to protect the local environment and preserve it for future generations.

- Air Emissions, Stormwater, Hazardous Waste, Universal Waste, E-Waste, Recycling, Reusable shop towel Program just to name a few.

# Environmental Management System

# Definition

**An EMS is an approach that integrates environmental considerations into our mission activities.**

**It’s nothing more than our environmental business plan**

# Why an EMS?

- To Protect human health and the environment for our and future generations of Marines
- Increases efficiency and reduces cost
- Improves relationships with surrounding communities
- Reduces risk to the mission, caused by environmental issues
- Assists in maintaining and improving the quality of our environment
- Maintains readiness by protecting training environments
- Protects the health of Marines, Sailors, Military Members, Civilians, Contractors, their families and surrounding communities from the nmental impacts associated with Mari es.

# EMS Example

- Practice: Aircraft Fueling or Vehicle Fueling
- Aspect: Uses hazardous material and generates hazardous waste
- Impact: Hazardous material/waste can leak or spill and pose serious risk to human health & the environment
- Practice Controls: Adhere to SOP's, properly store hazardous materials/waste, use PPE, have spill equipment on hand

# Pollution Prevention

# Reduce, Re-use, Recycle

- Reduce purchases to only what you need and reduce more toxic chemicals if possible
- Reuse or repurpose materials rather than disposing of them
- Recycle plastics, metals, paper, cardboard, etc.
- Utilize white recycling bins for comingled recyclables or trailers for cardboard

- **Recycled Materials/Products**
  - Purchasing printer paper, toner cartridges, toiletries, etc. made from recycled materials
  - Participating in recycling programs and not throwing recyclables in the refuse trash cans

- **Energy Efficient Products**
  - Energy Star appliances, low energy light bulbs

- **Alternative Fuels & Vehicles**
  - Biodiesel, electric vehicles, hybrids

- **Bio-Based Products**
  - Commercial/Industrial products that use bio materials as opposed to manufactured/synthetic materials
  - Reduces hazards in manufacturing processes

- **Environmentally Preferable Products**
  - Have lesser or reduced effects on health or the environment

- **Non Ozone Depleting Substances**
  - Use non ozone depleting products when possible in applications such as refrigeration chemicals, cleaning solvents, fire suppression agents, aerosols, adhesives, paints, etc.

- **Priority Chemicals**
  - Reduce amounts of Cadmium, lead, mercury

# Electronics (E-Waste)

- Fastest growing waste stream in the country due to constant upgrades of electronics (I-phone ?)
- Anything that contains a circuit board or plugs into an electrical outlet: computers, monitors, phones, light bulbs, toner cartridges, DVD players, remote controls, etc.
- Recyclable for the valuable materials used
- Is also toxic due to the materials used,
  - PCB's, Arsenic, Antimony, Nickel, Beryllium, Copper, Zinc, Mercury, Lead
- When improperly disposed of chemicals and elements can leech into waterways causing birth defects, cancer, mutations and death

# Ways to reduce pollution and environmental costs:

- Utilize station Hazardous Materials Minimization Center (HAZMINCEN) to procure hazmat.
- Properly dispose of hazardous waste via the Environmental Management Dept. (EMD), Waste Management Division (WMD).
- Participate in the recyclable shop towel program.
- Recycle paper, cardboard, aluminum, scrap metal, wood, plastic, used oil, used antifreeze, empty containers, electronic waste via the station’s recycling program.
- Do not litter, utilize trashcans and dumpsters.
- Good housekeeping in work spaces.

# Stormwater compliance

# Stormwater compliance

- **General Info:**
  - Water pollutants include
    - dredged soil,
    - solid waste,
    - incinerator residue,
    - sewage,
    - garbage,
    - sewage sludge,
    - munitions,
    - chemical wastes,
    - biological material,
    - radioactive materials,
    - heat,
    - wrecks or
    - discarded equipment, rock, sand, cellar dirt, and industrial, municipal and agricultural waste discharged into water.

# Stormwater compliance

## Best Management Practices

- Label all drums, cans, containers, tanks and valves
- Perform regular cleaning and regular pavement sweeping
- Avoid hosing down the site
- Recycle
- Store waste and recycling materials in proper containers
- Keep lids closed on all waste receptacles and HAZMAT drums

# Stormwater compliance

## Best Management Practices

- Limit significant materials inventory
- Routinely clean catch basins
- Keep equipment and vehicles clean
- Stencil signs on storm drain inlets
- Check vehicles and equipment for leaks
- Park vehicles on an impervious surface
- Discharge wash water to a sanitary sewer

# Stormwater compliance

## Best Management Practices

- Wash vehicles and equipment only at EMD-approved wash racks.
- Use drip pans underneath leaking aircraft, vehicles, and equipment.
- Substitute non-toxic or less toxic cleaning solvents.

# Greening Through Procurement

**Marine Corps installations consume a wide variety of toxic and non-renewable resources. Therefore, procurement of environmentally friendly and recyclable resources must be properly managed during daily operations.**

- Units must establish affirmative procurement programs for all items purchased by the unit, including hazardous materials

- Units must eliminate ozone depleting substances and purchase safe, environmentally friendly products that are recovered or recycled (when available)

- All units must also establish recycling programs for all recyclable materials

- Adhering to Greening through Procurement guidelines will help lower costs and lessen danger to human health and the environment

- Most commonly used materials are recyclable. Recycling commonly used materials conserves resources, lowers costs, preserves valuable landfill space, and lessens danger to human health and the environment

- Most commonly purchased products are available in safe, environmentally friendly, or recycled versions

# When complying with Greening through Procurement, you are responsible for observing the following:

- Receive training in Greening through Procurement Standard Operating Procedures (SOPs)
- Establish an affirmative procurement program based on EPA guidelines that indicates which items may be purchased by the unit
- Establish and implement environmental compliance audit programs and policies that emphasize pollution prevention
- Ensure that 100% of products purchased meet or exceed EPA guidelines
- Purchase recovered and/or recycled materials when available
- Limit and phase-out use of ozone-depleting substances and purchase safe, cost-effective, and environmentally preferable alternatives
- Comply with all printing and copying requirements (paper content shall be no less than 50% recovered/recycled materials)
- Implement guidelines for using re-refined lubricating oil and retread tires
- Maintain programs to recycle batteries, scrap metal, fluorescent lamps, and ballasts

# Landfill Trip Authorization ESOP

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- Call Recycling Center first at x 8872 or 6366 to have them inspect the load to determine if it can be recycled and if so, coordinate pickup and drop-off.

- If the waste cannot be recycled, then large waste items (i.e. couches) may be placed in one of the (3) 40-yard roll-off bins at Bldg. 8219.

- If the loads cannot fit inside the roll-off bins, then it will need to be hauled to the landfill.  This requires a call to EMD at x 1108; ask to speak with an EPS to coordinate an inspection.

- Make sure Landfill Trip Form (see next slide) is signed by WMD onnel before AND after the load goes to the Landfill.

# Landfill Trip Authorization Form

- This must be signed by WMD personnel before AND after each load goes to the Miramar Landfill

MARINE CORPS AIR STATION MIRAMAR

LANDFILL AUTHORIZATION

WMD APPROVED

EMD APPROVED BY _____ DATE _____ LANDFILL REPRESENTATIVE _____

PASS MUST BE PRESENTED TO LANDFILL OPERATOR UPON ENTRY, AND RETURNED TO ENVIRONMENTAL IMMEDIATELY UPON RETURN TO MCAS MIRAMAR.

MARINE CORPS AIR STATION MIRAMAR

LANDFILL AUTHORIZATION

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# Policy Letter 3-13
## *-Signed by CO*

**Prohibits personnel from delivering solid waste to the landfill without contacting the WMD first.**

**The Miramar Landfill will reject your load if not accompanied by a WMD signed Landfill chit.**

POLICY LETTER 3-13

From: Commanding Officer
To: Distribution List

Subj: AUTHORIZATION FOR DIRECT DISPOSAL TO MIRAMAR LANDFILL

Encl: (1) Landfill Authorization Chit
(2) Landfill Trip Authorization ESOP

1. Purpose. To establish policy for the authorization of direct disposal to the Miramar landfill.

2. Cancellation. This letter will remain in effect until revision or when indicated by appropriate authority.

3. Information. Marine Corps Air Station (MCAS) Miramar is faced with the challenge of ensuring that unauthorized materials are not inadvertently disposed at the Miramar landfill. This disposal of unauthorized materials is unlawful, has potential adverse affects to the environment and interferes with military operations. Service members and civilians that work or reside aboard MCAS Miramar are not correctly identifying materials as hazardous waste, universal waste or recyclable. The resulting consequences have negative impacts on the air station.

4. Scope. Effective immediately, all personnel are prohibited from delivering solid waste directly to the landfill without first making contact with the Environmental Department Waste Management Division (WMD).

a. To ensure that unauthorized materials do not enter the solid waste stream, tenants are required to report to Building 6022 to have their load inspected by WMD personnel and receive an authorization chit (enclosure (1)). Enclosure (2) is an Environmental Standard Operating Procedure (ESOP) describing the requirements of the program.

b. Unit leadership shall ensure that all subordinate personnel are briefed on the requirements of the ESOP.

c. Punitive Nature. This order is punitive in nature. In the case of service members, failure to comply with the policy and guidance contained in this order could result in administrative and or punitive action under the Uniformed Code of Military Justice. In the case of civilians, failure to comply with the policy and guidance constained in the order may result in prosecution under 18 U.S.C. 1382 in U.S. District Court.

| Environmental Standard Operating Procedure | | | |
|---|---|---|---|
| Originating Office: **MCAS Miramar Environmental Management Department** | Revision: Original | Prepared By: Waste Management Division | Approved By: William C. Moog |
| File Name: LTA-ESOP | Effective Date: 18 March 2013 | Document Owner: Mike Corona | |

# Title: Landfill Trip Authorization

## 1.0 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to provide guidelines Waste Management Division (WMD) personnel relating to delivery of garbage directly to the Miramar landfill.

## 2.0 APPLICATION

This guidance applies to all WMD personnel.

## 3.0 REFERENCES

- **MCO 5090.2A Ch 17 (USMC Environmental Compliance and Protection Manual)**
- **Integrated Solid Waste Management Plan (ISWMP)**
- **Hazardous Waste Management Plan (HWMP)**

## 4.0 PROCEDURE

### 4.1 Discussion:

Collection and transportation of solid waste to the Miramar landfill is authorized for any organization operating aboard MCAS Miramar, but must be performed according to the LTA-ESPO. WMD personnel must ensure that only authorized solid waste is disposed of and that unauthorized materials are properly accumulated and managed in accordance with references.

WMD personnel will discourage all organizations from making unnecessary landfill trips, and stress the fact that the Installation provides adequate containers for solid waste accumulation.

### 4.2 Operational Controls:

The following procedures apply:

1. Upon contact from an organization desiring to make a landfill run, WMD personnel will discourage the organization and guide the organization to the appropriate solid waste collection containers.
2. If unable to dissuade the requesting organization WMD will provide initial information on unauthorized items for disposal, and set up an appointment for load screening.
3. Organizations must report to building 6022 with loaded vehicle, on date and time of appointment for

**Ensure all personnel are briefed on the Landfill Trip Authorization ESOP.**

load screening by WMD personnel.

4. If the load is determined to be appropriate for delivery to the landfill, a Landfill Authorization chit will be provided to the organization, with instructions to have the chit signed by landfill representative.

5. The landfill chit will be signed by the WMD personnel that inspected the load, stamped with the official stamp, dated and given to the organization.

6. The WMD personnel should the complete the landfill authorization log.

7. Once the landfill trip is completed, the organization must return the signed landfill chit to the Waste Management Division for record keeping.

8. Personnel attempting to make landfill trips with an unapproved copy of the Landfill Authorization chit will be reported to their Commanding Officer.

9. Requesting personnel should be briefed on the following forbidden items, prior to vehicle loading if possible:

   a. Ammunition, ordinance, and range residue is prohibited.

   b. MRE (Meals Ready to Eat) heaters must be deactivated before disposal as non-hazardous solid waste, since they may react with water and create a fire hazard.

   c. Universal Waste. (batteries, electronics, aerosols, mercury containing equipment)

   d. Hazardous Waste. (flammables, paints, solvents, petroleum products, adhesives; corrosives, acids and bases; reactives, oxidizers; toxics, pesticides, inhalation hazards)

   e. Recyclables. (cardboard, paper, scrap metal, aluminum, serviceable pallets, plastics, brass)

   f. Chemically treated wood. Marked PA, PB, PC, or PD.

   g. Used tires.

10. This internal SOP should be updated as changes to the program become necessary.

**4.3 Documentation and Record Keeping:**

The following records must be maintained:

1. Landfill authorization log.

2. Landfill authorization chit.

- Page 2 of ESOP discusses the Landfill chit form and prohibited items from the Landfill, Documentation , Record Keeping and Training.

# CO'S ENVIRONMENTAL POLICY STATEMENT

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- Comply with applicable environmental law, regulation and policy.
- Employ strict Pollution Prevention (P2) efforts.
- Conserve natural and cultural resources.
- Clean up past contamination.
- Minimize any risk to our mission.
- Continually improve our environmental performance.

**Commanding Officer, MCAS Miramar**
**Environmental Policy Statement**

TEAM MIRAMAR

The mission of MCAS Miramar is simple: Support 3rd MAW and the Operational FMF. What we do each and every day contributes to success in combat. In order to be effective we must take care of our Marines, Sailors and families. By improving the lives of our families we support Marines and increase unit and family readiness. Team Miramar will help Marines be ready to do the Nation's bidding, as Marines have always done, by providing premier MAGTF training facilities, off duty recreation, and vibrant support of the family core. To accomplish this we must also take care of our training and recreational environments.

It is MCAS Miramar's commitment to:

- Comply with applicable environmental law, regulation and policy.
- Employ strict Pollution Prevention (P2) efforts.
- Conserve natural and cultural resources.
- Clean up or control areas of past contamination.
- Minimize any risk to our mission.
- Strive for continual improvement of our environmental performance.

In order to achieve our goals, the following Objectives and Targets have been established:

| Objective | Target | Target Implementation Date |
|---|---|---|
| Reduce the amount of trash going to the landfill | ▪ Increase solid waste diversion rate from 35% to 40% through various means to include but not limited to increased recycling awareness particularly with cardboard recycling and source reduction | ▪ Reach 40% diversion annually, starting in 2017 |
| F-35 program support infrastructure environmentally supported | ▪ Complete F-35 Supplementary Environmental Assessment<br>▪ All necessary environmental permits secured<br>▪ Environmental mitigation completed | ▪ Annually, starting in 2017 |
| Reduce risk of environmental regulatory noncompliance | ▪ All personnel aboard the installation receive general awareness annual training by Jan 30<br>▪ Train Facilities Engineering and Acquisition Division to enforce appropriate government contractor environmental practices by Dec 31<br>▪ Environmental Management Department audits every permitted site and source by Dec 31 | ▪ Annually |

Marine Corps Air Station Miramar is committed to continual improvement; recognizing the public as our partner, our continual improvement will be pursued and documented within our Environmental Management System (EMS) at www.MiramarEMS.com. Commander and leaders of all units will promote awareness of this policy and that superior environmental management expands training opportunities, maximizing resources, and supports 3d MAW and the Marine Corps Mission. For more information contact the Environmental Management Department at 858-577-1108.

J. G. WOODWORTH

# The end